



Patent Application No. : 10/648,012  
Applicant : C. Earl Woolfork  
Filing Date : 08-26-2003  
Group Art Unit : 2644  
Examiner : Graham, Andrew R.  
For : FUZZY AUDIO WIRELESS MUSIC SYSTEM

### DECLARATION UNDER 37 CFR § 1.132

In accordance with 37 CFR § 1.132, I hereby declare that

Further comments on the nonobviousness of the wireless digital audio music system invention. Attention will be focused on tribute paid to the instant invention system and the long need in the art for the solution the system provides. On June 26, 2003 the Wireless Digital Audio System patent application was made public on the U.S. Patent Office website. Clearly, it was available for all to see and learn from [Original Patent Application 10/027,391 ]. Such was the case with a company named Bluetake, because Bluetake marketed the "i-phono" approximately one (1) year after the invention was made public. The "i-phono" is discussed within the petition to make special that was filed by applicant on October 25, 2004. A committee within the US Patent Office granted the petition. Bluetake's i-phono functions in the same way as the disclosed invention (see filed petition to make special).

Similarly, Motorola has plans to release (scheduled 2<sup>nd</sup> quarter of 2005) their new wireless stereo headset system. It consists of a "DC800" transmitter that connects to the headphone jack of any of the devices mentioned by applicant earlier (portable MP3 players, portable CD players, portable cassette players, laptop computer or desktop computer), and a "HT820" receiver headphone. Motorola's wireless stereo system functions in the same way as the disclosed invention. The reason for the design similarities is obvious. In August of 2004 I disclosed the instant invention to Motorola hoping that a business relationship would be developed (i.e., establish a license agreement with Motorola to mass produce the invention).

After several documented fax and phone communications, Motorola appeared to show no interest and stated that "it is not the direction their company is going."

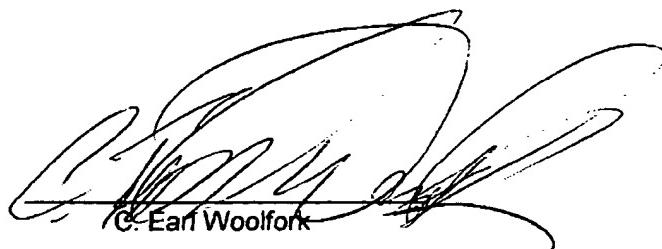
These two cases are brought to the Examiner's attention to show the level of interest in the invention is great. The fact that both of the companies discussed (Bluetake & Motorola), have taken the steps to quickly mass produce a duplication of the invention brings merit to support the case of nonobviousness. Clearly, Bluetake and Motorola pay tribute to and recognize the long felt need of the invention.

Attached are documents relating to contracts with Motorola and advertisements for the Company's new product.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States code and that such willful false statement may jeopardize the validity of the application or any patent issue thereon.

Dated:

6/30/05



C. Earl Woolfork

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TIME : 08/12/2004 06:36  
NAME :  
FAX# :  
TEL# :

DATE , TIME	08/12 06:36
FAX NO. , NAME	918475762569
DURATION	00: 00: 42
PAGE (S)	05
RESULT	OK
MODE	STANDARD ECM

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**TO:** Cathy McMillian

**NAME:** Moto-014  
**COMPANY**

**DATE:** 8/12/04

**TELEPHONE:** (847)576-2788 **FAX:** (847)576-2569

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**(INCLUDING COVER)**

5

**FROM:** C. Earl Woolfork

**NAME:** Earl Woolfork **ORG.**  
**BLDG / MS:**

**TELEPHONE:** (818) 625-4966 **FAX:**

**MESSAGE:**

8/12/04

Motorola Corporation  
1303 E. Algonquin Road  
Schaumburg, IL 60196  
(847) 576-5000 Office

Dear Ms Cathy McMillian,

Thank you for reviewing the enclosed FAWN (Fuzzy Audio Wireless Music) headset proposal.

The FAWN is a convenient, hands-free headset with crisp and pristine sound with no peripheral interference. The headset can be used with but not limited to computers, portable CD/cassette players, portable MP3's and AM/FM radios.

Thank you for your time and I look forward to meeting with you to discuss this proposal in further detail. If you have any questions, my contact information is listed below.

Sincerely,

C. Earl Woolfork  
(818) 625-4966 Cell Phone  
(626) 792-9822 Home Phone  
cwoolfork@sbcglobal.net

# Fuzzy Audio Wireless Music (FAWM) (Patent Pending)

By

C. Earl Woolfork, Electrical Engineer

Phone: (818) 625-4966 or (626) 792-9822

e-mail: [cwoolfork@sbcglobal.net](mailto:cwoolfork@sbcglobal.net)

## DESCRIPTION

- WIRELESS HEADSET USED WITH THE FOLLOWING DEVICES  
(SEE FIGURE 1):

- Portable MP3
- Portable CD/Cassette Player
- AM/FM Radio
- Desktop/Laptop Computer

## FEATURES

- THE FAWM UTILIZES BLUETOOTH TECHNOLOGY
  - A battery powered digital transmitter plugs into any standard headphone jack and transmits **only** to the assigned battery powered digital headphone receiver.

8/12/04

- Multiple FAWM users can operate within the same spatial area without interfering with each other.

## **MARKET ANALYSIS**

- CURRENT WIRELESS AUDIO DEVICES:

- Do not support multiple users
- Require A/C power
- Do not operate with portable devices

## **SUMMARY**

The FAWM device eliminates the inconvenience of wires, while connecting your portable audio device without degrading sound quality.

# Wireless Digital Audio

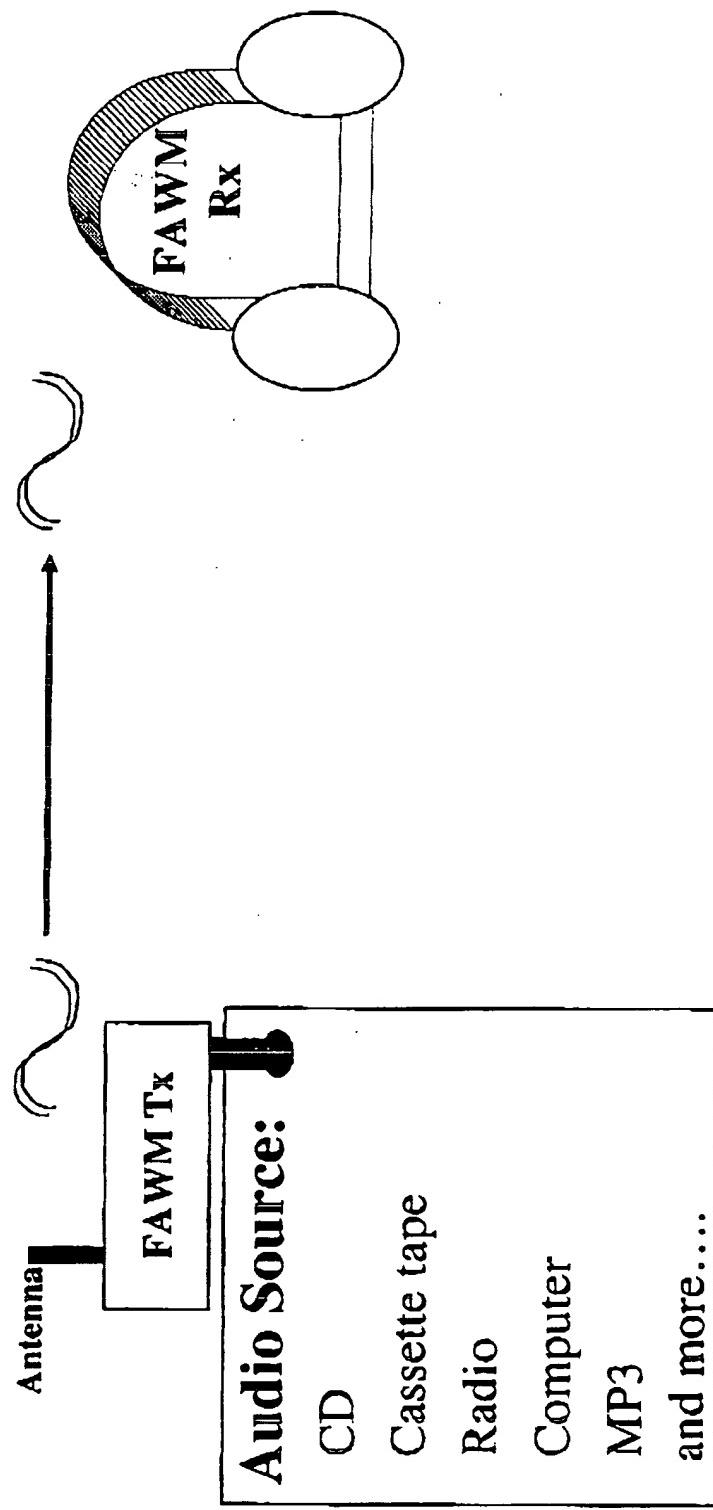


Figure 1

8/12/04

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DATE, TIME	08/12 05:37
FAX NO./NAME	916172529685
DURATION	00:00:57
PAGE(S)	05
RESULT	OK
MODE	STANDARD ECM

**TO:** ANDREW RAMER

**NAME:** MOTOROLA      **DATE:** 8/12/04  
**COMPANY:** MOTOROLA      **TELEPHONE:** (617) 252-9668      **FAX:** (617) 252-9685  
**# OF PAGES**  
**(INCLUDING COVER)** 5

**FROM:** C. EARL Woolfork

**NAME:** EARL Woolfork      **ORG.** ORG.  
**BLDG / MS:** EARL Woolfork      **TELEPHONE:** (818) 625-4966      **FAX:** (310) 334-4717

**MESSAGE:**

8/12/04

**Motorola Corporation  
Cambridge, MA  
(617) 252-9668 Office**

**Dear Mr Andrew Ramer,**

**Thank you for reviewing the enclosed FAWN (Fuzzy  
Audio Wireless Music) headset proposal.**

The FAWN is a convenient, hands-free headset with crisp and pristine sound with no peripheral interference. The headset can be used with but not limited to computers, portable CD/cassette players, portable MP3's and AM/FM radios.

Thank you for your time and I look forward to meeting with you to discuss this proposal in further detail. If you have any questions, my contact information is listed below.

**Sincerely,**

**C. Earl Woolfork  
(818) 625-4966 Cell Phone  
(626) 792-9822 Home Phone  
cwoolfork@sbcglobal.net**

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TIME : 08/16/2004 11:17  
NAME :  
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DATE, TIME	08/16 11:16
FAX NO./NAME	918475763750
DURATION	00:00:32
PAGE(S)	02
RESULT	OK
MODE	STANDARD ECM

TO: WENDY HARRIS

NAME: MOTOROLA INC. DATE: 8/16/04  
COMPANY

TELEPHONE:

FAX: (847)576-3750

# OF PAGES  
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2

FROM:

C. Earl Woolfork

NAME: Earl Woolfork ORG.  
BLDG / MS:

TELEPHONE: (318)625-4966

FAX: 319334-4717

MESSAGE: Per my conversation with Cathy McM. (AM)



**MOTOROLA**

August 11, 2004

Earl Woolfork  
500 Santa Paula Ave.  
Pasadena, CA 91107

**Re: Submission Idea**

Dear Mr. Woolfork:

In response to your recent inquiry, enclosed please find two copies of Motorola's policy and agreement regarding submission of ideas by persons outside the company. Given the frequency with which we receive ideas from people, who are not our employees, we have established this policy to protect both the submitter of the idea and Motorola.

It is Motorola's policy to require each inventor to sign this agreement before we will evaluate ideas from outside the corporation. If you have already sent us information on your idea, please be assured that we do not review any such materials until we have received the signed agreement.

Please sign and return one copy of the agreement along with any information, including patent number if applicable, that you feel would assist us in determining whether we are interested in pursuing this matter with you. Be sure to retain a copy of any information you submit and a copy of the agreement as we will be unable to return these materials to you.

Thank you for considering Motorola for your submission.

Sincerely,

Motorola, Inc.  
External Relations  
Intellectual Property Section  
Law Department



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**Motorola Advances the Mobile Music Experience through Bluetooth**

*New suite of Bluetooth wireless-enabled products merges wire-free mobility with musical entertainment*

LAS VEGAS, NV. – 8 January 2004 – Motorola Inc. (NYSE: MOT) forges new ground in mobile music with the announcement of the Motorola Bluetooth® Stereo Headset HT820, Motorola Bluetooth® Stereo Transceiver DC800 and Motorola Bluetooth® USB PC Adapter PC850. Designed for freedom, ease of use and seamless access to favorite songs, this trio creates a premium hi-fi wireless mobile music system.

As the first headset of its kind on the market, the Motorola HT820 wirelessly connects to a Bluetooth wireless-enabled phone and a separate music source simultaneously – promising that users can enjoy favorite songs without missing a call. Music automatically pauses when a call comes in and when the call ends, the music resumes play. The intuitive headset features controls for both the music source and mobile phone – making it easy to play, pause or stop a favorite song, as well as receive, answer or end calls wirelessly.

"Motorola continues to lead the industry with its development of innovative Bluetooth wireless-enabled handsets and accessories," said Bruce Hawver, vice president and general manager, Companion Products Group, Motorola, Personal Device Business. "Whether looking for an in-vehicle solution, headset, a wire-free music experience, consumers can rely on Motorola's Bluetooth portfolio for style, simplicity and advanced functionality."

Motorola's new trio of music-focused Bluetooth products eliminates the clutter of cables and provides Bluetooth connections for up to 10m (30 feet) – delivering flexible, high-quality, hands-free communication and entertainment.

**About the Products**

The lightweight, ergonomic Motorola HT820 provides premium communication and music connectivity with minimized background noise and reliable battery power. Complete with a 3.5mm headset jack and accessory cable, the headset is compatible with non-Bluetooth devices for universal music enjoyment.

With the ability to turn most stereos into a wireless music system, the portable Motorola DC800 streams content to the Motorola HT820 from the stereo and Bluetooth wireless-enabled mobile phones, PCs or other devices. For group listening, music can be played through the stereo speakers.

The Motorola PC850 empowers traditional laptops and PCs with Bluetooth technology, establishing cordless connections to compatible mobile phones, headsets and PDAs. Whether used to share and stream music files, data or images, the PC adapter provides a new level of mobile convenience.

**Pricing and Availability**

The Motorola Bluetooth Stereo Headset HT820, Motorola Bluetooth Stereo Transceiver DC800 and Motorola Bluetooth USB PC Adapter PC850 are expected to be available in the first half of 2005. For more information regarding product availability in your region, please check with your local Motorola representative.

**About Motorola**

Motorola is a Fortune 100 global communications leader that provides seamless mobility products and solutions across broadband, embedded systems and wireless networks. In your home, auto, workplace, and all spaces in between, seamless

mobility means you can reach the people, things and information you need, on the go. Seamless mobility harnesses the power of technology convergence and enables smarter, faster, cost-effective and flexible communication. Motorola had sales of US \$27.1 billion in 2003. For more information: [www.motorola.com](http://www.motorola.com).

Digital imagery of Motorola Personal Device products mentioned in this release can be seen at: [www.Motorola.com/motoinfo](http://www.Motorola.com/motoinfo)

# # #

**Media Contact:**

Monica Rohleder  
+1-847-523-5377  
[monica.rohleder@motorola.com](mailto:monica.rohleder@motorola.com).

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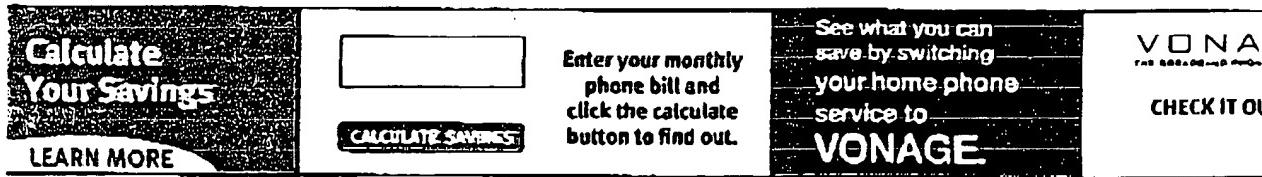
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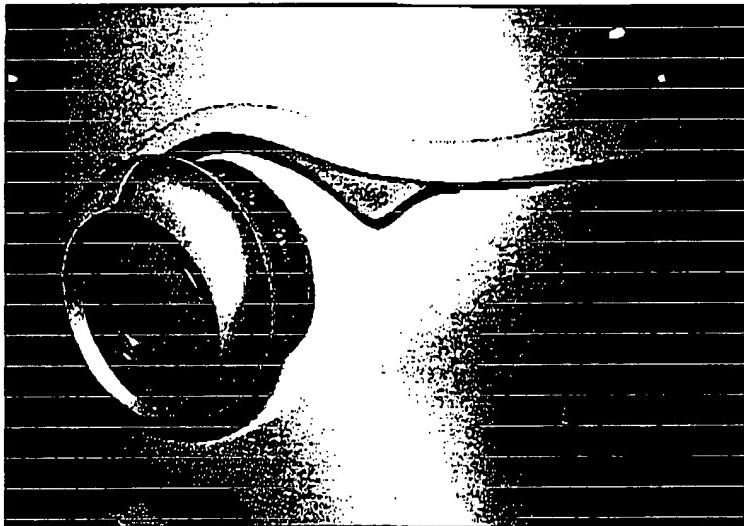
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## Motorola @ CES - The HT820 Bluetooth stereo headset explained

Posted Jan 8, 2005, 1:45 PM ET by Eric Lin

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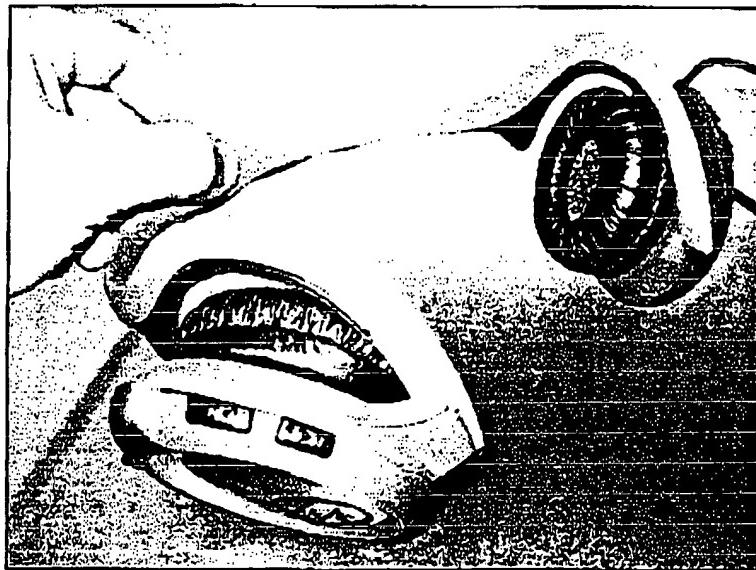
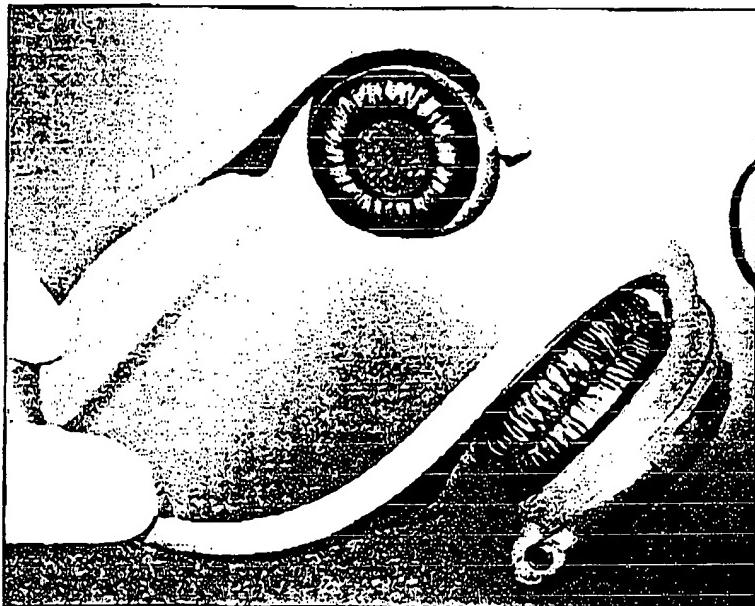
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Yesterday we thought the Moto Bluetooth stereo headset was interesting but we hadn't seen it and couldn't quite explain it. Today we have all the answers. (Ok, maybe not *all* the answers.) Here's how it really works. The HT820 supports both headset and hands-free to connect to a phone via Bluetooth. It also supports two new Bluetooth profiles for audio, one for receiving stereo broadcast and the other for controlling audio devices. If you have an audio device that supports the profiles, or you have an adapter—either one of Motorola's that we mentioned or even the naviPlay—the

headset will be able to pause your music when you take an incoming call, and you can even skip tracks using buttons right on the headset. If, however you don't have a Bluetooth audio device or adapter, you can plug a player into the 'phones using a cable, in which case, the HT820 will mute the audio when you get a phone call, but won't be able to pause it. There's a few more pix below.



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## Reader Comments

1. Posted Jan 8, 2005, 2:04 PM ET by Travis

Throwing in noise cancellation would put this product the stratosphere ... an in-ear version of this combo and we'd be out in space. Good stuff!

2. Posted Jan 8, 2005, 2:12 PM ET by treo007

Man, it's about time something like this was produced. This and the iPhone could be a killer combination. I wonder what the audio quality is like though?

3. Posted Jan 8, 2005, 2:19 PM ET by Joey Geraci

and battery life. I don't see room for that big of a battery

4. Posted Jan 8, 2005, 2:33 PM ET by Adam

I want Caller ID via laser display to my lenses, HUD-style. Geez, get it right the first time and make a fortune.

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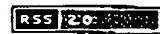
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5. Posted Jan 8, 2005, 2:34 PM ET by Chris Heinonen

I want to know if there's a way I can get this to work for me at the office. Given how often I have to pause music and remove headphones when someone calls, if I could setup my desktop to support this, and somehow work with my phone, it would be ideal.

6. Posted Jan 8, 2005, 2:37 PM ET by Jaron Senna

Awesome if it will really work, battery life is my main concern...

And, now all we need is a bluetooth module for the ipod I guess, although then we have a battery issue with the iPod if we haven't already...

7. Posted Jan 8, 2005, 2:53 PM ET by ScottO

Hmmmm, no obvious microphone or boom attachment, how does it grab your voice when talking on the phone?

8. Posted Jan 8, 2005, 3:11 PM ET by Richard

Okay, so this supports both the Headset and Hands-Free profiles. Where's the mic at (so we can actually use this as a headset)? Also, what are the "new" audio profiles that it supports? I'm assuming Advanced Audio Distribution (A2DP) and Audio/Video Remote Control (AVRCP), but some confirmation and even more "deets" would be much appreciated. I'm excited to finally see a Bluetooth/wired stereo headset; this just may be close enough to that perfect device I was alluding to (<http://www.engadget.com/entry/5563682036957882/#c57818>)!

9. Posted Jan 8, 2005, 7:05 PM ET by Thomas

<http://www.bluetake.com/products/BT420EX.htm>

here is what you are looking for, has flip out mic there are no controls to skip tracks etc., but that would have to be made for a specific player I would think.

these are available now.

10. Posted Jan 8, 2005, 8:48 PM ET by Richard

I've known about that since Engadget posted on it. It's the closest thing currently available to what I want, but that's a Bluetooth only headset. Unlike this Motorola one, when the battery dies you are out of luck.

11. Posted Jan 8, 2005, 11:21 PM ET by jon

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will there be an adapter so i can use it was a regular 3.5mm audio player? (i despreately want these for my gmini 400, v600, and ibm t42!!)

12. Posted Jan 10, 2005, 1:15 AM ET by Mike

As a Stereo Bluetooth Headset the SONORIX OBH-0100 is already on the market and does all of the above. With a totally wire free set of 'Sports' Bluetooth Stereo headphones it also boasts an 'on board' MP3 player too. It comes supplied with a USB Bluetooth dongle and Bluetooth Software Suite to enable the streaming of Stereo Audio from your PC too. It is also equipped with a mic and can be used as a mobile hands free kit pausing the music track you are listening to to take calls and fading it back in when you end your call.

Check out [www.bluesharksystems.com](http://www.bluesharksystems.com) for more details

13. Posted Jan 10, 2005, 2:29 AM ET by Mike

Mike.

Good point but the darn thing goes for \$239 US (In Canada that's like \$1000 dollars. eh?)

14. Posted Jan 10, 2005, 9:07 PM ET by Mike

I guess that does sound a bit steep, but I'm looking at these things from a regional perspective.

I live in the UK and if you break the Sonorix set down into its various components I think you are getting quite a bit of 'bang per buck'

e.g.

The Sonorix OBH-0100 comprises of the following | (Wireless Studio Quality Stereo Audio Headset Sennheiser RS120 RRP £70) - (Top End (Mono) Bluetooth Hands free Headset Jabra RRP £59) - (128M/Bit Totally Wireless MP3 Player - Not even commercially available Disc-O Music Player nearest RRP £60) - (128M/Bit Compact Flash Ram File storage device RRP £25) - (Full Bluetooth Software Suite with USB Dongle - Belkin 10M RRP £25)---(Total RRP £239 GBP)|

That would equate to about \$448 USD at current rates. I know the cost of living is expensive in London but I guess these things are relative.

15. Posted Jan 11, 2005, 4:09 AM ET by Mike

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## News

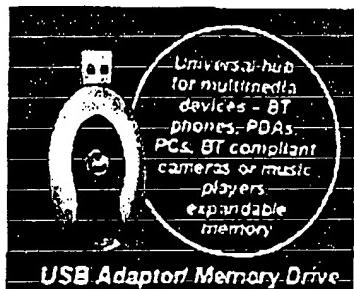
### Motorola bares its Bluetooth grin and points to the PMG

by Guy Kewney | posted on 18 October 2004

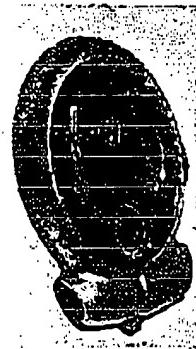
We had hints, before, that Motorola was following the IXI path, and designing a personal mobile gateway wireless hub - with phones, text pads, cameras and other toys all being Bluetooth peripherals. Now, the veil is lifting ... a family of new Bluetooth peripherals. And plans ... including stereo audio devices.



Today, the company said it couldn't confirm, but wouldn't deny, that it was working with Bluetooth pioneers IXI Mobile - then admitted that it would work with partners, and "wouldn't re-invent wheels."



Music storage with both Bluetooth and USB



Bluetooth speaker for car hands-free

New  
toys:  
at a  
conference  
in  
London,  
product  
manager  
Fred  
Zimbric  
predicted  
that  
the  
phone  
itself  
would  
become

"just a little green circuit card." He said: "A phone will be embedded in cars, computers, other devices. The Bluetooth accessory will be the thing you use. You will wonder which is

the accessory, and which is the phone."

The star of the show was the "necklace" bluetooth device. There were also three ordinary wireless headpieces, and a "remote speaker" which allows the motorcar user to fit their own hands-free kit - all Bluetooth. "The HS830 Necklace Headset will have a multifunction button, 5 hours talk time, six days standby. This is the bluetooth module; you can attach it to the motorcycle helmet headset in the HS 830 Helmet," said Zimbric, showing off the noise cancelling, rubber sealed cover, which makes the helmet unit weather proof.

Concept devices were shown. The necklace is a product which will definitely be launched, and will allow devices to be swapped out. But move away from phones, and devices being tested include texting keyboards "thin as a credit card, wearable like an ID badge" and music storage units, which could be used as a temporary "staging area" for high-res pictures taken by a future Bluetooth camera. Which might, or might not, be a phone itself.

"These are concept devices, not products," Zimbric said. "But if we did launch them, they would appear next year."

He also showed future Bluetooth toys; things which will allow us to take the sound output from iPods, TV sockets, or CD players or PCs, and literally broadcast them over Bluetooth throughout the home, in high quality stereo. Not, perhaps, true hi-fi - but then, the output of an iPod isn't true hi-fi, either.

Two devices in particular will appear soon. The DC800 Stereo Gateway; and HT 820 Bluetooth stereo headset "which we're coming out with next year, will be costed at a level well below WiFi stereo products, which we think are expensive. And we'll upgrade them as soon as the Bluetooth SIG (special interest group)

ratifies the Enhanced Data Rate (EDR) spec, which is three times faster than the 700 kilobit/sec payload you get today," said Fred Zimbrick.

The uncanny resemblance between Motorola plans and IXI Mobile designs has been noted before. Was this the moment to ask whether the two companies were talking? Is this necklace the first step towards a Motorola PMG? or coincidence?



**Henrik Asbjorn**

Zimbrick said he "couldn't say." Asked if he could deny it, he just grinned. Henrik Asbjorn, general manager of

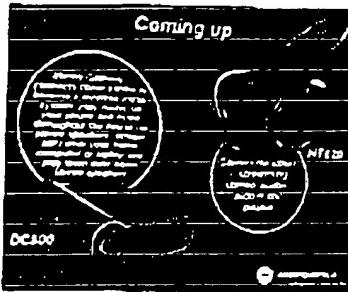
Motorola EMEA consumer business said: "Our relationship with Apple over iTunes shows that if there is something out there, then, if the question is 'are we going to reinvent everything?' then the answer is 'absolutely not.' The Apple Motorola deal made sense; will see where we can be partnering up with other companies, where it makes sense."

No comment from IXI Mobile, either.

Nice toys, Motorola. Which of them will be the PMG? - You can discuss this article on our [discussion board](#).

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#### Future stereo Bluetooth products, for first quarter 05

# Press Release: Motorola Advances the Mobile Music Experience through Bluetooth



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- The logo for Siemens SF65, featuring a stylized graphic of a building or industrial structure on the left, followed by the word "GALLERY" in a bold, sans-serif font, and "Siemens SF65" in a smaller, bold, sans-serif font below it.



- The logo for the Samsung Anna Sui SGH-E315 phone. It features a small black silhouette of a woman's head and shoulders, facing right, enclosed in a square frame. To the right of the frame, the word "NEWS" is written in a bold, sans-serif font. Below this, the model name "Samsung Anna Sui SGH-E315" is displayed in a larger, bold, black font.



- —



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**Sanyo MM-5600**

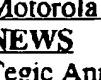


- ## GALLERY

### Fujitsu F901iC



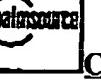
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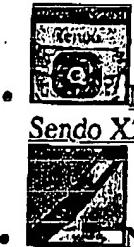
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## Motorola Advances the Mobile Music Experience through Bluetooth

Press Release posted by Michael Oryl (editor) on Thursday January 06, 2005.

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**New suite of Bluetooth wireless-enabled products merges wire-free mobility with musical entertainment**

LAS VEGAS, Jan. 6 /PRNewswire-FirstCall/ -- Motorola Inc. (NYSE:MOT) forges new ground in mobile music with the announcement of the Motorola Bluetooth(R) Stereo Headset HT820, Motorola Bluetooth(R) Stereo Transceiver DC800 and Motorola Bluetooth(R) USB PC Adapter PC850. Designed for freedom, ease of use and seamless access to favorite songs, this trio creates a premium hi-fi wireless mobile music system.

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As the first headset of its kind on the market, the Motorola HT820 wirelessly connects to a Bluetooth wireless-enabled phone and a separate music source simultaneously -- promising that users can enjoy favorite songs without missing a call. Music automatically pauses when a call comes in and when the call ends, the music resumes play. The intuitive headset features controls for both the music source and mobile phone -- making it easy to play, pause or stop a favorite song, as well as receive, answer or end calls wirelessly.

"Motorola continues to lead the industry with its development of innovative Bluetooth wireless-enabled handsets and accessories," said Bruce Hawver, vice president and general manager, Companion Products Group, Motorola, Personal Device Business. "Whether looking for an in-vehicle solution, headset, a wire-free music experience, consumers can rely on Motorola's Bluetooth portfolio for style, simplicity and advanced functionality."

Motorola's new trio of music-focused Bluetooth products eliminates the clutter of cables and provides Bluetooth connections for up to 10m (30 feet) -- delivering flexible, high-quality, hands-free communication and entertainment.

### About the Products

The lightweight, ergonomic Motorola HT820 provides premium communication and music connectivity with minimized background noise and reliable battery power. Complete with a 3.5mm headset jack and accessory cable, the headset is compatible with non-Bluetooth devices for universal music enjoyment.

With the ability to turn most stereos into a wireless music system, the portable Motorola DC800 streams content to the Motorola HT820 from the stereo and Bluetooth wireless-enabled mobile phones, PCs or other devices. For group listening, music can be played through the stereo speakers.

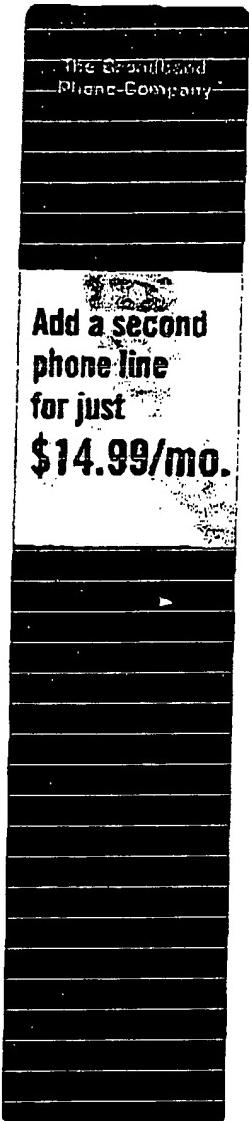
The Motorola PC850 empowers traditional laptops and PCs with Bluetooth technology, establishing cordless connections to compatible mobile phones, headsets and PDAs. Whether used to share and stream music files, data or images, the PC adapter provides a new level of mobile convenience.

### Pricing and Availability

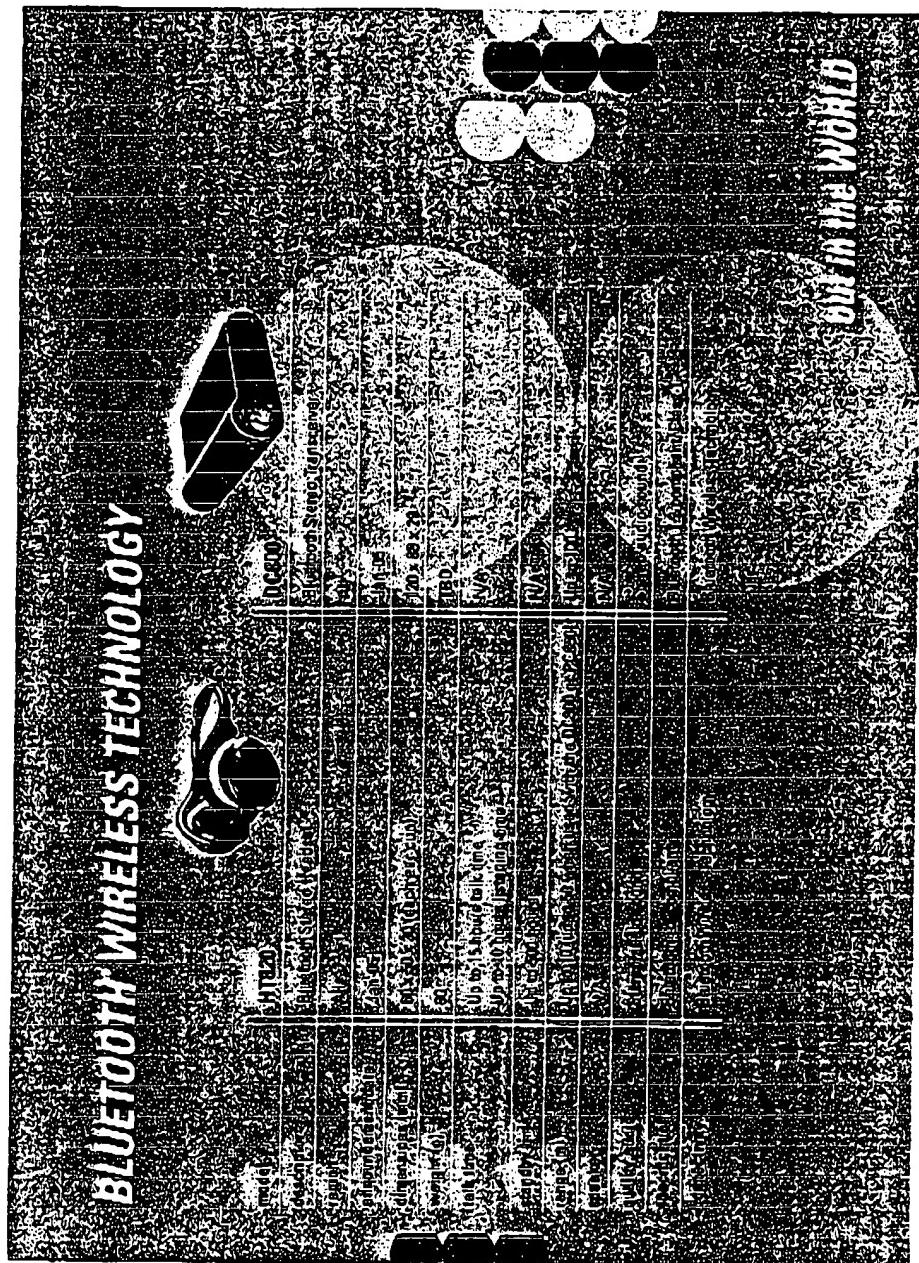
The Motorola Bluetooth Stereo Headset HT820, Motorola Bluetooth Stereo Transceiver DC800 and Motorola Bluetooth USB PC Adapter PC850 are expected to be available in the first half of 2005. For more information regarding product availability in your region, please check with your local Motorola representative.

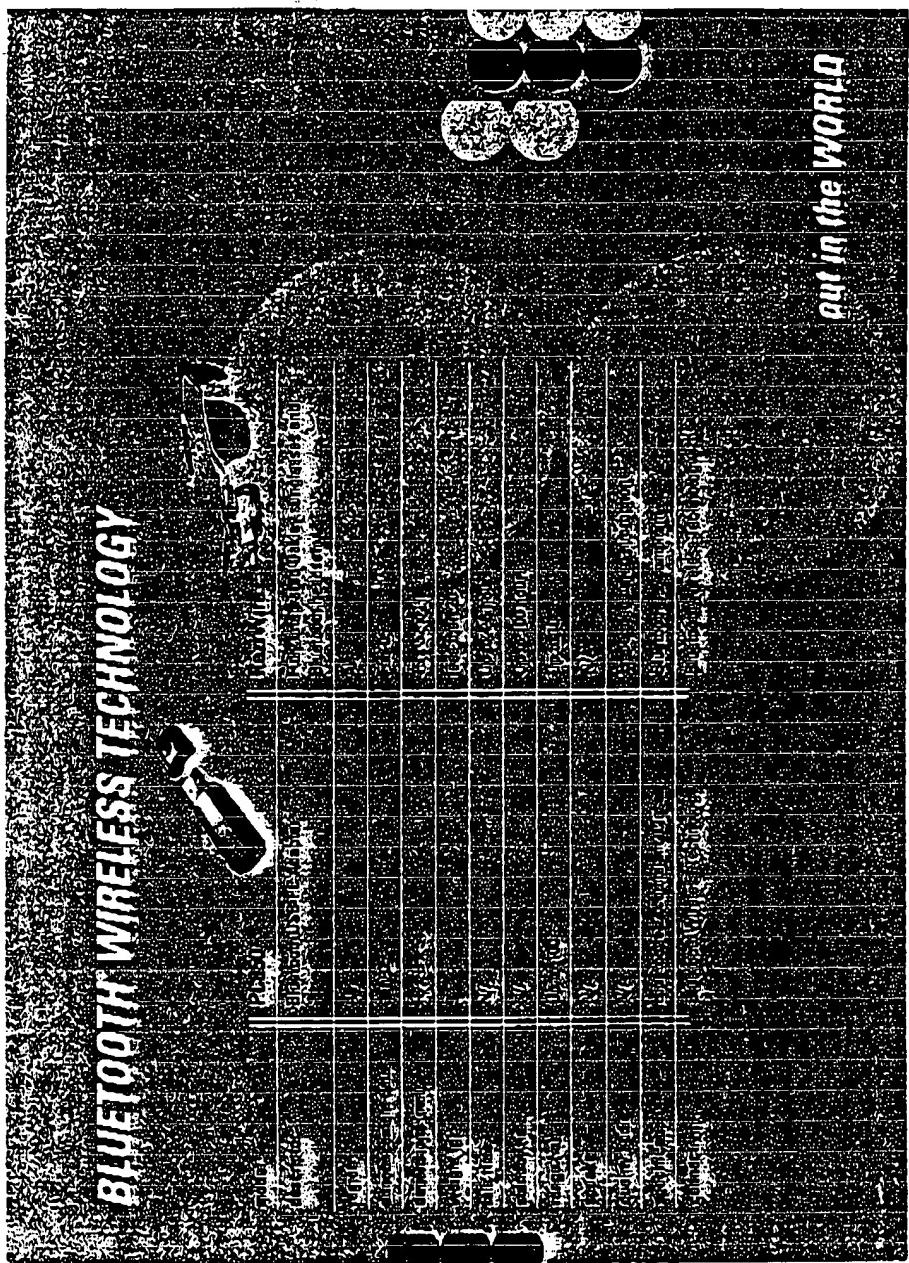
### About Motorola

Motorola is a Fortune 100 global communications leader that provides seamless mobility products and solutions across broadband, embedded systems and wireless networks. In your home, auto, workplace, and all spaces in between, seamless mobility means you can reach the people, things and information you need, on the go. Seamless mobility harnesses the power of technology convergence and enables smarter, faster, cost-effective and flexible communication. Motorola had sales of US \$27.1 billion in 2003. For more information: <http://www.motorola.com/>.



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